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NOTICE OF ALLOWANCE AND FEE(S) DUE

39500 7590 11/19/2008 McDermid, Turnbull & Anglehart Patent and Trade-mark Agents Suite 1, Sutton House EXAMINER BOLDA, ERIC L

PAPER NUMBER

ART UNIT

3663 DATE MAILED: 11/19/2008

Patent and Trade-mark Agents Suite 1, Sutton House 186, Place Sutton Beaconsfield, QC H9W 5S3 CANADA

 APPLICATION NO.
 FILING DATE
 FIRST NAMED INVENTOR
 ATTORNIEY DOCKET NO.
 CONFRMATION NO.

 10/520,277
 04/06/2006
 Sergueil Papernyi
 P1033US00
 5091

TITLE OF INVENTION: CASCADED PUMP DELIVERY FOR REMOTELY PUMPED ERBIUM-DOPED FIBER AMPLIFIERS

 APPLN. TYPE
 SMALL ENTITY
 ISSUE FEE DUE
 PUBLICATION FEE DUE
 PREV. PAID ISSUE FEE
 TOTAL FEE(s) DUE
 DATE DUE

 nonprovisional
 YES
 \$755
 \$300
 \$0
 \$1055
 02/19/2009

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE DOES NOT REFLECT A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE IN THIS APPLICATION. IF AN ISSUE FEE HAS PREVIOUSLY BEEN PAID IN THIS APPLICATION (AS SHOWN ABOVE), THE RETURN OF PART B OF THIS FORM WILL BE CONSIDERED A REQUEST TO REAPPLY THE PREVIOUSLY PAID ISSUE FEE TOWARD THE ISSUE FEE NOW DUE.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

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III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

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INSTRUCTIONS: This form should be used for transmitting the ISSUE FEE and PUBLICATION FEE (if required). Blocks 1 through 5 should be completed where appropriate. All further correspondence including the Patent, advance orders and notification of maintenance fees will be mailed to the current correspondence address; and indicated unless corrected below or directed otherwise in Block I, by (a) specifying a new correspondence address; as new correspondence address; as reparate "FEE ADDRESS" for

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CURRENT CORRESPONDE	ENCE ADDRESS (Note: Use Bi	j	Note: A certificate of mailing can only be used for domestic mailings of the Fee(s) Transmittal. This certificate cannot be used for any other accompanying papers. Each additional paper, such as an assignment or formal drawing, must have its own certificate of mailing or transmission.					
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Patent and Trade Suite 1, Sutton H	Iouse] 5 8	Certificate of Mailing or Transmission I hereby certify that this Feed's Transmital is being deposited with the United States Postal Service with sufficient postage for first class mail in an envelope addressed to the Mail Stop ISSUF FEE, address above, or being faestimile transmitted to the USPTO (5/1) 273-2885, on the date indicated below.					
186, Place Sutto			ſ				(Depositor's name)	
Beaconsfield, QC H9W 5S3					(Signature)			
CANADA			ŀ				(Date)	
APPLICATION NO.	FILING DATE		FIRST NAMED INVENT	OR	ATTORNEY DOCKET	NO. CON	NETRMATION NO.	
10/520,277	04/06/2006		Sergueil Papernyi		P1033US00		5091	
APPLN, TYPE	SMALL ENTITY	ISSUE FEE DUE	PUBLICATION FEE D	JE PREV. PAID ISSU	E FEE TOTAL FEE(S) DUE	DATE DUE	
nonprovisional	YES	\$755	\$300	\$0	\$1055		02/19/2009	
EXAM	INER	ART UNIT	CLASS-SUBCLASS	7				
BOLDA, ERIC L		3663	359-234000	_				
Change of correspondence address or indication of "Fee Address" (37 TR 1.563). Change of correspondence address (or Change of Correspondence Address form PTOSB/12/22) attached. "Fee Address" indication (or "Fee Address" Indication form PTOSB/14/2, Rev 03-02 or more recent) attached. Use of a Customer Number is required.			2. For printing on the patent front page, list (1) the names of up to 3 registered patent attorneys or agents OR, alternatively, (2) the name of a single firm (having as a member a registered name, or of agents and the names of up to 2 registered patent attorneys or agents. If no name is listed, no name will be printed.					
PLEASE NOTE: Uni- recordation as set forti (A) NAME OF ASSIG	ess an assignee is ident h in 37 CFR 3.11. Comp GNEE	A TO BE PRINTED ON ' ified below, no assignee oletion of this form is NO categories (will not be pr	data will appear on th T a substitute for filing (B) RESIDENCE: (C.	e patent. If an assign an assignment. TTY and STATE OR C			_	
Advance Order - #	o small entity discount p	permitted)	ib. Payment of Fee(s): (Please first reapply any previously paid issue fee shown above) ☐ A check is enclosed. ☐ Payment by credit card. Form PTO-2038 is attached. ☐ The Director is hereby authorized to charge the required fee(s), any deficiency, or credit any overpayment, to Deposit Account Number (enclose an extra copy of this form).					
a. Applicant claims	tus (from status indicate s SMALL ENTITY statu	is. See 37 CFR 1.27.			LL ENTITY status. Sec			
NOTE: The Issue Fee and nterest as shown by the r	d Publication Fee (if req records of the United Sta	uired) will not be accepte tes Patent and Trademark	d from anyone other the Office.	an the applicant; a reg	stered attorney or agent	; or the assig	gnee or other party in	
Authorized Signature				Date				
Typed or printed name			Registration No.					
This collection of informs in application. Confident abmitting the completed his form and/or suggesti 30x 1450, Alexandria, V Alexandria, Virginia 223	ation is required by 37 C tiality is governed by 35 I application form to the ons for reducing this but irginia 22313-1450. DC 13-1450.	FR 1.311. The informatis U.S.C. 122 and 37 CFR USPTO. Time will vary rden, should be sent to th O NOT SEND FEES OR	on is required to obtain 1.14. This collection is depending upon the ir e Chief Information Of COMPLETED FORMS	or retain a benefit by estimated to take 12 idividual case. Any co- ficer, U.S. Patent and TO THIS ADDRESS	he public which is to fil minutes to complete, in- mments on the amount Trademark Office, U.S S. SEND TO: Commissi	e (and by the cluding gath of time you . Departmen ioner for Pat	e USPTO to process) ering, preparing, and require to complete t of Commerce, P.O. tents, P.O. Box 1450,	

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10/520,277 04/06/2006		Sergueil Papernyi	P1033US00	5091
39500 75	590 11/19/2008	EXAMINER		
McDermid, Turn	bull & Anglehart	BOLDA, ERIC L		
Patent and Trade-r		ART UNIT	PAPER NUMBER	
Suite 1, Sutton Ho 186, Place Sutton Beaconsfield, OC			3663 DATE MAILED: 11/19/200	8

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 258 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 258 day(s).

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (571)-272-7702. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at 1-(888)-786-0101 or (571)-272-4200.

Application No. Applicant(s) 10/520,277 PAPERNYI ET AL. Notice of Allowability Examiner Art Unit FRIC BOLDA 3663 -- The MAILING DATE of this communication appears on the cover sheet with the correspondence address--All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308. This communication is responsive to 8/1/2008. 2. The allowed claim(s) is/are 1-21. 3. Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). b) \(\subseteq \text{Some* c) \subseteq \text{None of the:} 1. T Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3. Copies of the certified copies of the priority documents have been received in this national stage application from the International Bureau (PCT Rule 17.2(a)). * Certified copies not received: _____. Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. A SUBSTITUTE OATH OR DECLARATION must be submitted. Note the attached EXAMINER'S AMENDMENT or NOTICE OF INFORMAL PATENT APPLICATION (PTO-152) which gives reason(s) why the oath or declaration is deficient. CORRECTED DRAWINGS (as "replacement sheets") must be submitted. (a) Including changes required by the Notice of Draftsperson's Patent Drawing Review (PTO-948) attached 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Amendment / Comment or in the Office action of Identifying indicia such as the application number (see 37 CFR 1.84(c)) should be written on the drawings in the front (not the back) of each sheet. Replacement sheet(s) should be labeled as such in the header according to 37 CFR 1.121(d). 6. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL. Attachment(s) 1. | Notice of References Cited (PTO-892) 5. Notice of Informal Patent Application Notice of Draftperson's Patent Drawing Review (PTO-948) Interview Summary (PTO-413), Paper No./Mail Date Information Disclosure Statements (PTO/SB/08). 7. Examiner's Amendment/Comment Paper No./Mail Date 7/15/2008 8. X Examiner's Statement of Reasons for Allowance 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material 9. ☐ Other . /Eric Bolda/

Primary Examiner, Art Unit 3663

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STATEMENT OF REASONS FOR ALLOWANCE

Response to Amendment

1. This Office Action is responsive to Applicant's amendment of Aug. 1, 2008

Drawings

The drawings (corrected Figs. 1-3) were received on Aug. 1, 2008. These drawings are accepted.

Allowable Subject Matter

- 3. Claims 1-21 are allowed. The following is an examiner's statement of reasons for allowance: the prior art does not disclose or make obvious, method and apparatus with pump means to provide substantially lower power at two or more seed wavelengths, with wavelengths between the pump wavelength and signal wavelength, and carried by a pump delivery fiber with Raman gain to a remote optically pumped amplifier, the seed powers configured to provide more power at the primary pump wavelength to the optical amplifier, than would be provided by coupling the maximum input power at the primary pump wavelength at the transmitter or receiver end.
- 4. Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance"

Information Disclosure Statement

The information disclosure statement filed on July 15, 2008 has been considered by the Examiner. Application/Control Number: 10/520,277 Page 3

Art Unit: 3663

Conclusion

 Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Eric Bolda whose telephone number is 571-272-8104.
 The examiner can normally be reached on M-F from 8:30am to 5pm.

If attempts to reach the examiner by telephone are unsuccessful, the Examiner's supervisor, Jack Keith, can be reached on 571-272-6878. Please note the fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

/Eric Bolda/

Primary Examiner, Art Unit 3663